

CLAIMS

1. A cutting tool for rotational cutting engagement under pressure with a workpiece surface, said cutting tool comprising;
a rod-shaped body having a cutting portion with a cutting surface at one end of said body and an attachment portion at the other end of said body;
at least one hole within said body extending along the length of said body from a first outlet at said cutting surface to a second outlet from said body; and
an oil-filled polymer lubricant in said hole at said cutting surface of said first outlet, said lubricant releasing oil at said cutting surface in operation of said tool.
2. The cutting tool as recited in claim 1 in which a volume of said lubricant is filled in said hole before use of said cutting tool and said volume is the sole source of lubricant at said cutting surface in the operation of said cutting tool.
3. The cutting tool as recited in claim 1 in which said tool is a drill and said hole extends in a helical path along the longitudinal axis of said body of said drill to a second outlet at the connecting end of said body.
4. The cutting tool as recited in claim 1 in which said oil-filled polymer lubricant comprises a microporous polyethylene matrix containing lubricating oil and said oil makes up more than 50% by weight of said lubricant in said tool.
5. A drill for rotational cutting engagement under pressure with a workpiece surface, said drill comprising;

a rod-shaped body having a cutting portion with a cutting surface at one end of said body, an attachment portion at the other end of said body and at least one helical flute in said body extending from said cutting surface;

at least one hole within said body extending along the length of said body from a first outlet at said cutting surface to a second outlet from said body; and

an oil-filled polymer lubricant in said hole at said cutting surface of said first outlet, said lubricant releasing oil at said cutting surface in operation of said tool.

6. A drill as recited in claim 5 in which said hole extends in a helical path along the longitudinal axis of said body of said drill to a second outlet at the connecting end of said body.

7. The drill as recited in claim 5 in which a volume of said lubricant is filled in said hole before use of said drill and said volume is the sole source of lubricant at said cutting surface in the operation of said drill.

8. The drill as recited in claim 5 in which said oil-filled polymer lubricant comprises a microporous polyethylene matrix containing lubricating oil and said oil makes up more than 50% by weight of said lubricant in said drill.